

Abstract of the Disclosure

A radiation detector includes a plurality of scintillators closely arranged two-dimensionally, and a plurality of photoelectron multipliers optically connected to the scintillators. A number of photoelectron multipliers is less than that of the scintillators. A light guide is disposed between the scintillators and the photoelectron multipliers. The light guide is formed of a cured liquid resin and a lattice frame member integrally formed with the cured liquid resin. The lattice frame member forms partition walls in the cured liquid resin to provide compartments therein.